



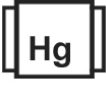










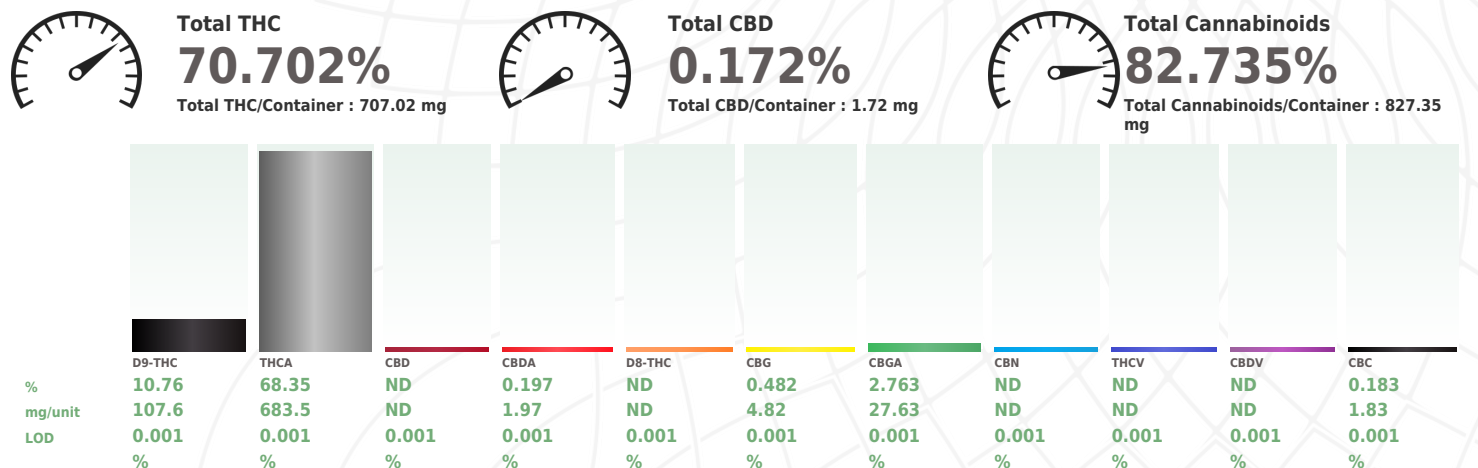
Certificate of Analysis

Sample:GA20719001-019
Harvest/Lot ID: ORFCW162-2207-11815
Batch#: LPC-3L-050922-3
Cultivation Facility: Gainesville Cultivation
Processing Facility : Gainesville Processing
Seed to Sale# ORFCW162-2207-11815
Batch Date: 07/11/22
Sample Size Received: 16 gram
Total Batch Size: 121 units
Retail Product Size: 1 gram
Ordered : 07/19/22
Sampled : 07/19/22
Completed: 07/22/22
Sampling Method: SOP.T.20.010
PASSED

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Jul 22, 2022 | Liberty Health Sciences, FL
18770 N CR 225
Gainesville, FL, 32609, US


PRODUCT IMAGE	SAFETY RESULTS								MISC.
	 Pesticides PASSED	 Heavy Metals PASSED	 Microbials PASSED	 Mycotoxins PASSED	 Residuals Solvents PASSED	 Filtration PASSED	 Water Activity PASSED	 Moisture NOT TESTED	 Terpenes TESTED
 Cannabinoid									PASSED



Analyzed by: 3404, 3192, 2507, 3303
Weight: 0.1048g
Extraction date: 07/21/22 08:51:01
Extracted by: 3192
Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : GA047092POT
Instrument Used : GA-HPLC-003 2030C PDA
Running on : 07/21/22 13:07:16
Reviewed On : 07/22/22 09:32:01
Batch Date : 07/19/22 13:46:00
Dilution : 400
Reagent : 013122.12; 020322.R09; 010421.48; 060922.09; 071522.04; 070222.R03; 062122.R33
Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 12455-202CD-202C; R0NB32898; 000000146137; 210268; 944C4 944J; 209598; 212516; SLGNM25NS
Pipette : GA-005; GA-011; GA-149; GA-153; GA-150; GA-169 (Dispenser); GA-196; GA-209 Dispenser

Full Spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection in accordance with F.S. Rule 64ER20-39.



Certificate of Analysis

PASSED

Liberty Health Sciences, FL

 18770 N CR 225
 Gainesville, FL, 32609, US
 Telephone: (833) 254-4877
 Email: Qualityassurance@libertyhealthsciences.com

 Sample : GA20719001-019
 Harvest/Lot ID: ORFCW162-2207-11815

 Batch# : LPC-3L-050922-3
 Sample Size Received : 16 gram
 Total Batch Size : 121 units
 Sampled : 07/19/22
 Completed : 07/22/22 Expires: 07/22/23
 Ordered : 07/19/22
 Sample Method : SOP.T.20.010

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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENES	0.007	43.63	4.363		CAMPHOR	0.013	ND	ND	
TOTAL TERPINEOL	0.007	1.74	0.174		BORNEOL	0.013	<0.4	<0.04	
CAMPENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	0.8	0.08		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	ND	ND		ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	ND	ND		ALPHA-HUMULENE	0.007	5.53	0.553	
OCIMENE	0.007	0.64	0.064		TRANS-NEROLIDOL	0.007	0.47	0.047	
EUCALYPTOL	0.007	<0.2	<0.02		GUAJOL	0.007	2.96	0.296	
LINALOOL	0.007	4.01	0.401		Analyzed by: 3404, 3655, 3205, 3303, 2155 Weight: 0.9253g Extraction date: 07/19/22 15:00:24 Extracted by: 3655 Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch : GA047040TER Instrument Used : GA-GCMS-002 QP2010S Running on : 07/19/22 16:49:24 Reviewed On : 07/20/22 12:29:03 Batch Date : 07/18/22 17:13:52 Dilution : 50 Reagent : 060922.R22; 050322.48; 010421.48 Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 89012-780; RONB32898; 000000146137; 210268; 212516 Pipette : GA-005; GA-011; GA-146; GA-151 Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.				
FENCHONE	0.007	ND	ND						
ISOPULEGOL	0.007	ND	ND						
ISOBORNEOL	0.007	ND	ND						
HEXAHYDROTHYMOL	0.007	<0.2	<0.02						
NEROL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	18.2	1.82						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
CARYOPHYLLENE OXIDE	0.007	0.44	0.044						
FARNESENE	0	0.36	0.036						
ALPHA-BISABOLOL	0.007	3.45	0.345						
ALPHA-PINENE	0.007	ND	ND						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	ND	ND						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	2.35	0.235						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	0.58	0.058						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	2.1	0.21						
Total (%)			4.363						



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Harvest/Lot ID: ORFCW162-2207-11815

Batch# : LPC-3L-050922-3

Sampled : 07/19/22

Ordered : 07/19/22

Sample Size Received : 16 gram

Total Batch Size : 121 units

Completed : 07/22/22 Expires: 07/22/23

Sample Method : SOP.T.20.010

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Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
TOTAL CONTAMINANT LOAD (PESTICIDES)	0.01	PPM	5	PASS	ND	PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND
TOTAL DIMETHOMORPH	0.01	PPM	0.2	PASS	ND	PHOSMET	0.01	ppm	0.1	PASS	ND
TOTAL PERMETHRIN	0.01	ppm	0.1	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
TOTAL SPINETORAM	0.01	PPM	0.2	PASS	ND	PRALLETHRIN	0.01	ppm	0.1	PASS	ND
TOTAL SPINOSAD	0.01	ppm	0.1	PASS	ND	PROCONAZOLE	0.01	ppm	0.1	PASS	ND
ABAMECTIN B1A	0.01	ppm	0.1	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ACEPHATE	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	0.5	PASS	ND
ACEQUINOXYL	0.01	ppm	0.1	PASS	ND	PYRIDABEN	0.01	ppm	0.2	PASS	ND
ACETAMIPRID	0.01	ppm	0.1	PASS	ND	SPIROMESIFEN	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	SPIROTETRAMAT	0.01	ppm	0.1	PASS	ND
AZOXYSTROBIN	0.01	ppm	0.1	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
BIFENAZATE	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	0.1	PASS	ND
BIFENTHRIN	0.01	ppm	0.1	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
BOSCALID	0.01	PPM	0.1	PASS	ND	THIAMETHOXAM	0.01	ppm	0.5	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.15	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	1	PASS	ND	PARATHION-METHYL *	0.01	PPM	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	1	PASS	ND	CAPTAN *	0.07	PPM	0.7	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	CHLORDANE *	0.01	PPM	0.1	PASS	ND
CLOFENTZINE	0.01	ppm	0.2	PASS	ND	CHLORFENAPYR *	0.01	PPM	0.1	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND	CYFLUTHRIN *	0.05	PPM	0.5	PASS	ND
DAMINOZIDE	0.01	ppm	0.1	PASS	<0.05	CYPERMETHRIN *	0.05	PPM	0.5	PASS	ND
DIAZINON	0.01	ppm	0.1	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
DIMETHOATE	0.01	ppm	0.1	PASS	ND	3404, 3317, 3303	1.02344g	07/20/22 15:48:44	3317		
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	Analysis Method :					
ETOFENPROX	0.01	ppm	0.1	PASS	ND	SOP.T.30.101.FL, SOP.T.30.102.FL, SOP.T.30.151.FL, SOP.T.40.101.FL, SOP.T.40.102.FL,					
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	SOP.T.40.151.FL					
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Analytical Batch :					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	GA047094PES					
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Instrument Used :					
FIPRONIL	0.01	ppm	0.1	PASS	ND	GA-LCMS-001 PES					
FLONICAMID	0.01	ppm	0.1	PASS	ND	Running on :					
FLUDIOXONIL	0.01	ppm	0.1	PASS	ND	07/20/22 17:57:53					
HEXYTHIAZOX	0.01	ppm	0.1	PASS	ND	Dilution :					
IMAZALIL	0.01	ppm	0.1	PASS	ND	10					
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND	Reagent :					
KRESOXIM-METHYL	0.01	ppm	0.1	PASS	ND	072022.R65; 050621.01; 061922.R02; 061922.R04					
MALATHION	0.01	ppm	0.2	PASS	ND	Consumables :					
METALAXYL	0.01	ppm	0.1	PASS	ND	947.109; 470228-424; LLS-00-0005; 89012-780; 296055173; 210268					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Pipette :					
METHOMYL	0.01	ppm	0.1	PASS	ND	GA-002; GA-210 Dispenser					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry and Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
NALED	0.01	ppm	0.25	PASS	ND	3404, 3303, 3317	1.02344g	07/20/22 15:48:44	3317		
OXAMYL	0.01	ppm	0.5	PASS	ND	Analysis Method :					
						SOP.T.30.060, SOP.T.40.060					
						Analytical Batch :					
						GA047173VOL					
						Instrument Used :					
						GA-GCMS-006					
						Running on :					
						07/21/22 09:19:33					
						Dilution :					
						100					
						Reagent :					
						072022.R65; 050621.01; 070822.R07					
						Consumables :					
						947.109; 470228-424; LLS-00-0005; 89012-780; 296055173; 210268; 55447-U.15143701					
						Pipette :					
						GA-002; GA-210 Dispenser					
						Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry and Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					



Certificate of Analysis

PASSED

Liberty Health Sciences, FL

18770 N CR 225

Gainesville, FL, 32609, US

Telephone: (833) 254-4877

Email: Qualityassurance@libertyhealthsciences.com

Sample : GA20719001-019

Harvest/Lot ID: ORFCW162-2207-11815

Batch# : LPC-3L-050922-3

Sampled : 07/19/22

Ordered : 07/19/22

Sample Size Received : 16 gram

Total Batch Size : 121 units

Completed : 07/22/22 Expires: 07/22/23

Sample Method : SOP.T.20.010

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Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
METHANOL	25	ppm	250	PASS	ND
ETHANOL	500	ppm	5000	PASS	<2500
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
ACETONE	75	ppm	750	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
DICHLOROMETHANE	12.5	ppm	125	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND

Analyzed by:

N/A

Weight:

N/A

Extraction date:

N/A

Extracted by:

N/A

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA04707450L

Instrument Used : GA-GCMS-004 QP2020NX

Running on : 07/19/22 12:57:15

Reviewed On : 07/20/22 12:04:55

Batch Date : 07/19/22 10:33:06

Dilution : N/A

Reagent : N/A

Consumables : 27296; 854996

Pipette : N/A

Residual solvents analysis is performed utilizing Gas Chromatography Mass Spectrometry in accordance with with F.S. Rule 64ER20-39.



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 Sample : GA20719001-019
 Harvest/Lot ID: ORFCW162-2207-11815

 Batch# : LPC-3L-050922-3
 Sampled : 07/19/22
 Ordered : 07/19/22
 Sample Size Received : 16 gram
 Total Batch Size : 121 units
 Completed : 07/22/22 Expires: 07/22/23
 Sample Method : SOP.T.20.010

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<div> Microbial</div>						<div><div>PASSED</div></div>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level						
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS							
SALMONELLA SPECIFIC GENE			Not Present	PASS							
ASPERGILLUS FLAVUS			Not Present	PASS							
ASPERGILLUS FUMIGATUS			Not Present	PASS							
ASPERGILLUS TERREUS			Not Present	PASS							
ASPERGILLUS NIGER			Not Present	PASS							
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000						
Analyzed by: 3404, 1790, 3209, 2821, 1541		Weight: 1.07g	Extraction date: 07/19/22 14:18:02		Extracted by: 1790						
Analysis Method : SOP.T.40.041, SOP.T.40.043, SOP.T.40.045, SOP.T.40.056B, SOP.T.40.058.FL, SOP.T.40.208											
Analytical Batch : GA047096MIC		Reviewed On : 07/22/22 08:12:00									
Instrument Used : GA-TYM-001 Tempo Filler and Reader		Batch Date : 07/19/22 14:08:28									
Running on : 07/19/22 15:53:29											
Dilution : 90											
Reagent : 060122.05; 032822.02											
Consumables : 2303260; 2303190; 2304090; 2305240; 61630-123C6-123E											
Pipette : GA-154; GA-186; GA-213											
Microbial testing is performed utilizing various technologies including: PCR, RTPCR, MPN, and traditional culture based techniques in accordance with F.S. Rule 64ER20-39..											
Analyzed by: 3404, 1790, 3209, 2821, 1541		Weight: 1.07g	Extraction date: 07/19/22 14:18:02		Extracted by: 1790						
Analysis Method : SOP.T.40.041		Reviewed On : 07/22/22 08:12:44									
Analytical Batch : GA047097TYM		Batch Date : 07/19/22 14:26:01									
Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader											
Running on : 07/19/22 15:53:31											
Dilution : 90											
Reagent : 060122.05											
Consumables : 2303260; 2303190; 2304090; 2305240											
Pipette : GA-154; GA-213											
Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.											

<div> Mycotoxins</div>						<div><div>PASSED</div></div>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level						
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02						
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02						
OCHRATOXIN A	0.002	ppm	ND	PASS	0.02						
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02						
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02						
Analyzed by: 3404, 3303, 3317		Weight: 1.02344g	Extraction date: 07/20/22 15:48:44		Extracted by: 3317						
Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL											
Analytical Batch : GA047172MYC		Reviewed On : 07/21/22 16:48:37									
Instrument Used : GA-LCMS-001 MYC		Batch Date : 07/20/22 17:18:28									
Running on : 07/20/22 17:58:41											
Dilution : 10											
Reagent : 072022.R65; 050621.01; 061922.R02; 061922.R04											
Consumables : 947.109; 470228-424; LLS-00-0005; 89012-780; 296055173; 210268											
Pipette : GA-002; GA-210 Dispenser											
Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.											

<div><div>Hg</div></div> Heavy Metals						<div><div>PASSED</div></div>					
Metal	LOD	Units	Result	Pass / Fail	Action Level						
TOTAL CONTAMINANT LOAD METALS	0.11	PPM	ND	PASS	1.1						
ARSENIC	0.02	PPM	ND	PASS	0.2						
CADMIUM	0.02	PPM	ND	PASS	0.2						
MERCURY	0.02	PPM	ND	PASS	0.2						
LEAD	0.05	PPM	ND	PASS	0.5						
Analyzed by: 3404, 3571, 3317, 1541		Weight: 0.4141g	Extraction date: 07/20/22 10:57:33		Extracted by: 3571						
Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL											
Analytical Batch : GA047039HEA		Reviewed On : 07/21/22 11:05:26									
Instrument Used : GA-ICPMS-002		Batch Date : 07/18/22 17:13:28									
Running on : N/A											
Dilution : 100											
Reagent : 052422.R35; 070522.R18; 010421.51; 071522.04; 071522.R33; 071922.R23; 071922.R24; 042022.R45											
Consumables : GA-194; GA-195; CGR0114; 12455-202CD-202C; 210268; L2019501											
Pipette : GA-012; GA-183; GA-193											
Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.											



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Page 6 of 6


**Filth/Foreign
Material**
PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	%	ND	PASS	5

Analyzed by: 3404, 3192, 1541	Weight: 15.3g	Extraction date: 07/19/22 13:26:23	Extracted by: 3192
----------------------------------	------------------	---------------------------------------	-----------------------

Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA047084FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 07/19/22 15:53:09

Batch Date : 07/19/22 11:50:42

Dilution : N/A

Reagent : N/A

Consumables : N/A

Pipette : N/A

Filth and foreign material inspection is performed by visual inspection utilizing naked eye and microscope technologies in accordance with F.S. Rule 64ER20-39.


Water Activity
PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Water Activity	0.1	aw	0.651	PASS	0.85

Analyzed by: 3404, 3655, 2507	Weight: 0.7605g	Extraction date: 07/20/22 10:14:33	Extracted by: 3655
----------------------------------	--------------------	---------------------------------------	-----------------------

Analysis Method : SOP.T.40.019

Analytical Batch : GA047095WAT

Instrument Used : GA-085 Rotronic HygroPalm

Running on : N/A

Reviewed On : 07/20/22 12:21:55

Batch Date : 07/19/22 13:48:02

Dilution : N/A

Reagent : N/A

Consumables : 107264

Pipette : N/A

Water Activity is performed using a Rotronic HygroPalm HP 23-AW in accordance with F.S. Rule 64ER20-39.